

**Amendments to the Specification:**

1. Applicant reiterates the following Amendment #30 of October 20, 2003, which was made in response to the Office Action with mailing date of April 22, 2003, so as to make clear that an embedded hyperlink on page 41, line 17 has been deleted:

30. Please delete all of the text between the sentence on page 39, line 16, beginning with:

Upon completion of these steps by the Keyword Identification Module (128)

and ending the deletion of text with the sentence on page 41, line 21:

The confusion matrix data are also stored in the Text Classification Data section (160) in the Data Repository (138).

2. Applicant reiterates the following Amendment #39 of October 20, 2003, which was made in response to the Office Action with mailing date of April 22, 2003, so as to make clear that embedded hyperlinks on page 62, lines 8 & 11; and page 63, line 4 have been deleted:

39. Please delete the section of text beginning with the following sentence on page 57, line 13:

The Text Classification, Cluster Randomization, and Data Summarization Program Modules (130, 132, and 134, respectively) then processed the data as described in the Preferred Embodiment.

and end deletion of the section of text with the following sentence on page 65, line 3:

These results are in agreement with the results shown in Figs. 3 and 4, which also indicated that the accession numbers (genes) associated with Cluster D are functionally related to one another, whereas the accession numbers (genes) associated with cluster B are not.

3. Please replace the following text beginning on page 17, line 5:

These modules make use of the "bow" software toolkit for statistical language modeling, text retrieval, classification, and clustering (version 1999.11.22), which was downloaded from the Web site <http://www.cs.cmu.edu/~mccallum/bow>, and which is hereby incorporated by reference, in particular, its open source code.

with the following amended text:

These modules make use of the "bow" software toolkit for statistical language modeling, text retrieval, classification, and clustering (version 1999.11.22), which was downloaded from the Web site <http://www.cs.cmu.edu/~mccallum/bow>, in particular, its open source code.

4. Applicant reiterates the following Amendment 8 of March 21, 2005, in response to the Office Communication with mailing date of February 23, 2005:

8. Please replace the text on page 17, line 7:

the Web site <http://www.cs.cmu.edu/~mccallum/bow>

with the following amended text:

the Web site having the following domain name – top level domain = edu, second level domain = cmu, third level domain = cs, fourth level domain = www, path = /~mccallum/bow

so that the amended text in the instant amendment to the specification #3 becomes:

These modules make use of the "bow" software toolkit for statistical language modeling, text retrieval, classification, and clustering (version 1999.11.22), which was downloaded from the Web site having the following domain name – top level domain = edu, second level domain = cmu, third level domain = cs, fourth level domain = www, path = /~mccallum/bow, in particular, its open source code.

5. Please replace the following text beginning on page 37, line 18:

The possible options are listed in the documentation for the 'rainbow' computer program at the Web site [www.cs.cmu.edu/~mccallum/bow](http://www.cs.cmu.edu/~mccallum/bow), as well as its "rainbow --help" on-line documentation, which are included here by reference.

with the following amended text:

The possible options are listed in the documentation for the 'rainbow' computer program at the Web site [www.cs.cmu.edu/~mccallum/bow](http://www.cs.cmu.edu/~mccallum/bow), as well as its "rainbow --help" on-line documentation.

6. Applicant reiterates the following Amendment 18 of March 21, 2005, in response to the Office Communication with mailing date of February 23, 2005:

18. Please replace the text beginning on page 37, line 19:

the Web site *www.cs.cmu.edu/~mccallum/bow*,

with the following amended text:

the Web site having the following domain name – top level domain = edu, second level domain = cmu, third level domain = cs, fourth level domain = www, path = */~mccallum/bow* ,

so that the amended text in the instant amendment to the specification #5 becomes:

The possible options are listed in the documentation for the 'rainbow' computer program at the Web site having the following domain name – top level domain = edu, second level domain = cmu, third level domain = cs, fourth level domain = www, path = */~mccallum/bow* , as well as its "rainbow --help" on-line documentation.

7. Please replace the following text beginning on page 39, line 13:

A description of such options is present in the on-line documentation for the rainbow program, which is included here by reference.

with the following amended text:

A description of such options is present in the on-line documentation for the rainbow program.